

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 03-465-C (400/142)	Serial No. 10/757,803
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant: McSwiggen et al.	
(Use several sheets if necessary)		Filing Date: January 14, 2004	Group: 1635



U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
OTH	*	09/740,332	12/18/00	Blatt et al.			
	*	10/151,116	05/17/02	Matulic-Adamic et al.			
	*	10/201,394	08/13/01	Vargeese et al.			
	*	10/417,012	04/16/03	McSwiggen et al.			
	*	10/422,704	04/24/03	McSwiggen et al.			
	*	10/427,160	04/30/03	Vargeese et al.			
	*	10/444,853	05/23/03	McSwiggen et al.			
	*	10/652,791	08/29/03	McSwiggen et al.			
	*	10/693,059	10/23/03	McSwiggen et al.			
	*	10/720,448	11/24/03	McSwiggen et al.			
	*	10/727,780	12/03/03	Vaish et al.			
	*	60/082,404	04/20/98	Thompson et al.			
	*	60/358,580	02/20/02	Beigelman et al.			
	*	60/362,016	03/06/02	Matulic-Adamic et al.			
	*	60/363,124	03/11/02	Beigelman et al.			

EXAMINER <i>OTH</i>	DATE CONSIDERED <i>5/14/05</i>
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Cats ↓	*	60/386,782	06/06/02	Beigelman et al.			
	*	60/402,996	08/13/02	Usman et al.			
	*	60/406,784	08/29/02	Beigelman et al.			
	*	60/408,378	09/05/02	Beigelman et al.			
	*	60/409,293	09/09/02	Beigelman et al.			
	*	60/440,129	01/15/03	Beigelman et al.			
	*	60/543,480	02/10/04	Jadhavi et al.			
	*	US 2001/0007666	01/05/99	Hoffman et al.			07/12/01
	*	US 2002/0130430	12/29/00	Caster			09/19/02

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
Cats ↓	*	5,138,045	08/11/92	Cook et al.			
	*	5,214,136	05/25/93	Lin et al.			
	*	5,334,711	08/02/94	Sproat			
	*	5,627,053	05/06/97	Usman et al.			
	*	5,631,360	05/20/97	Usman et al.			
	*	5,670,633	09/23/97	Cook et al.			

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ATB	*	5,672,695	09/30/97	Eckstein et al.		
	*	5,716,824	02/10/98	Beigelman et al.		
	*	5,792,847	08/11/98	Buhr et al.		
	*	5,804,683	09/08/98	Usman et al.		
	*	5,814,620	09/29/98	Robinson et al.		
	*	5,831,071	11/03/98	Usman et al.		
	*	5,854,038	12/29/98	Sullenger et al.		
	*	5,889,136	03/30/99	Scaringe et al.		
	*	5,898,031	04/27/99	Crooke		
	*	5,998,203	12/07/99	Adamic et al.		
	*	6,001,311	12/14/99	Brennan		
	*	6,005,087	12/21/99	Cook et al.		
	*	6,008,400	12/28/99	Scaringe et al.		
	*	6,054,576	04/25/00	Bellon et al.		
	*	6,107,094	08/22/00	Crooke		
	*	6,111,086	08/29/00	Scaringe et al.		
	*	6,117,657	09/12/00	Usman et al.		
	*	6,153,737	11/28/00	Manoharan et al.		
	*	6,162,909	12/19/00	Bellon et al.		

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ATHB	*	6,180,613	01/30/01	Kaplitt et al.		
	*	6,235,310	05/22/01	Wang et al.		
	*	6,235,886	05/22/01	Manoharan et al.		
	*	6,248,878	06/19/01	Adamic et al.		
	*	6,300,074	10/09/01	Gold		
	*	6,303,773	10/16/01	Bellon et al.		
	*	6,335,434	01/01/02	Guzaev et al.		
	*	6,353,098	03/05/02	Usman et al.		
	*	6,362,323	03/26/02	Usman et al.		
	*	6,395,713	05/28/02	Beigelman et al.		
	*	6,437,117	08/20/02	Usman et al.		
	*	6,447,796	09/10/02	Vook et al.		
	*	6,469,158	10/22/02	Usman et al.		
	*	6,476,205	11/05/02	Buhr et al.		
	*	6,506,559	06/14/03	Fire et al.		
	*	6,528,631	03/04/03	Cook et al.		
	*	6,586,524	07/01/03	Sagara		
	*	6,617,156	09/09/03	Doucette-Stamm et al.		

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
AMB	*	2001240375 (Old Application No. 40375/01)	03/16/01	AU (Graham et al.)				
AMB	*	2,359,180	08/03/00	CA (Kreutzer et al.)				
AMB	*	1144623 B1	01/20/02	EP (Kreutzer et al.)				
AMB	*	89/02439	03/23/89	WO (Arnold et al.)				
	*	90/14090	11/29/90	WO (Gillespie et al.)				
	*	91/03162	03/21/91	WO (Rossi et al.)				
	*	92/07065	04/30/92	WO (Eckstein et al.)				
	*	93/15187	08/05/93	WO (Usman et al.)				
	*	93/23569	11/25/93	WO (Draper et al.)				
	*	94/01550	01/20/94	WO (Agrawal et al.)				
	*	94/02595	02/03/94	WO (Sullivan et al.)				
	*	95/06731	03/09/95	WO (Usman et al.)				
	*	95/11910	05/04/95	WO (Dudycz et al.)				
	*	96/10390	04/11/96	WO (Ansell et al.)				
	*	96/10391	04/11/96	WO (Choi et al.)				

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AMB	*	96/10392	04/11/96	WO (Holland et al.)				
	*	97/26270	07/24/97	WO (Beigelman et al.)				
	*	98/13526	04/02/98	WO (Woolf et al.)				
	*	99/04819	02/04/99	WO (Klimuk)				
	*	99/05094	02/04/99	WO (Beigelman et al.)				
	*	99/07409	02/18/99	WO (Deschamps de Paillette et al.)				
	*	99/14226	03/25/99	WO (Wengel et al.)				
	*	99/31262	06/24/99	WO (Barry et al.)				
	*	99/32619	07/01/99	WO (Fire et al.)				
	*	99/49029	09/30/99	WO (Graham et al.)				
	*	99/53050	10/21/99	WO (Waterhouse et al.)				
	*	99/54459	10/28/99	WO (Thompson et al.)				
	*	99/61631	12/02/99	WO (Heifetz et al.)				
	*	00/01846	01/13/00	WO (Plaetinck et al.)				
	*	00/17369	03/30/00	WO (Gurney et al.)				
	*	00/44895	08/03/00	WO (Kreutzer et al.)				
	*	00/44914	08/03/00	WO (Li et al.)				
	*	00/49035	08/24/00	WO (Sheen)				
✓	*	00/53722	09/14/00	WO (O'Hare and Normand)				

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QTB	*	00/63364	10/26/00	WO (Pachuk et al.)				
	*	00/66604	11/09/00	WO (Wengel et al.)				
	*	01/04313	01/18/01	WO (Satishchandran et al.)				
	*	01/29058	04/26/01	WO (Mello et al.)				
	*	01/36646	05/25/01	WO (Zemicka-Goetz et al.)				
	*	01/38551	05/31/01	WO (Grossniklaus)				
	*	01/42443	06/14/01	WO (Churikov et al.)	ABSTRACT ONLY - NO TRANSLATION			
	*	01/49844	07/12/01	WO (Driscoll et al.)				
	*	01/53475	07/26/01	WO (Cogoni et al.)				
	*	01/68836	09/20/01	WO (Beach et al.)				
	*	01/70944	09/27/01	WO (Honer et al.)	ABSTRACT ONLY - NO TRANSLATION			
	*	01/70949	09/27/01	WO (Graham et al.)				
	*	01/72774	10/04/01	WO (Deak et al.)				
	*	01/75164	10/11/01	WO (Tuschi et al.)				
	*	01/92513	12/06/01	WO (Arndt et al.)				
	*	01/96584	12/20/01	WO (Mushegian et al.)				
	*	02/15876	02/28/02	WO (Beigelman et al.)				
	*	02/22636	03/21/02	WO (Bennett et al.)				
✓	*	02/38805	05/16/02	WO (Echeverri et al.)				

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AMB	*	02/44321	06/06/02	WO (Tuschl et al.)					
	*	02/55692	07/18/02	WO (Kreutzer et al.)	ABSTRACT	ONLY	NO	TRANSLATION	
	*	02/55693	07/18/02	WO (Kreutzer et al.)	ABSTRACT	ONLY	NO	TRANSLATION	
	*	02/094185 (PCT/US02/15876)	11/28/02	WO (Beigelman et al.)					
	*	03/024420	03/27/03	WO (Ahlheim et al.)					
	*	03/046185	06/05/03	WO (Wang et al.)					
	*	03/047518	06/12/03	WO (Wang et al.)					
	*	03/064625	08/07/03	WO (Woolf et al.)					
	*	03/064626	08/07/03	WO (Woolf et al.)					
	*	03/070918 (PCT/US03/05346)	08/28/03	WO (McSwiggen et al.)					
	*	03/074654 (PCT/US03/05028)	09/12/03	WO (McSwiggen et al.)					
	*	04/013280	02/12/04	WO (Davidson et al.)					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).


AMB	*	Adah et al., "Chemistry and Biochemistry of 2',5'-Oligoadenylate-Based Antisense Strategy," <i>Current Medicinal Chemistry</i> , 8, 1189-1212 (2001)
AMB	*	Akhtar and Juliano, "Cellular Uptake and Intracellular Fate of AntiSense Oligonucleotides," <i>Trends Cell Biol.</i> 2:139-144 (1992)

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A113	* Aldrian-Herrada et al., "A peptide nucleic acid (PNA) is more rapidly internalized in cultured neurons when coupled to a <i>retro-inverso</i> delivery peptide. The antisense activity depresses the target mRNA and protein in magnocellular oxytocin neurons," <u>Nucleic Acids Research</u> 26:4910-4916 (1998)
	* Allshire, "RNAi and Heterochromatin - A Hushed-up Affair," <u>Science</u> 297:1818-1819 (2002)
	* Andrews and Faller, "A rapid micropreparation technique for extraction of DNA-binding proteins from limiting numbers of mammalian cells," <u>Nucleic Acids Research</u> 19:2499 (1991)
	* Baenziger and Fiete, "Galactose and N-Acetylgalactosamine-Specific Endocytosis of Glycopeptides by Isolated Rat Hepatocytes," <u>Cell</u> 22:611-620 (1980)
	* Bahramian et al., "Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1(I)$ Collagen by a Homologous Transcriptionally Self-Silenced Transgene," <u>Molecular and Cellular Biology</u> , 274-283 (1999)
	* Bannai et al., "Effect of Injection of Antisense of Oligodeoxynucleotides of GAD Isozymes into Rat Ventromedial Hypothalamus on Food Intake and Locomotor Activity," <u>Brain Research</u> 784:305-315 (1998)
V	* Bannai et al., "Water-absorbent Polymer as a Carrier for a Discrete Deposit of Antisense Oligodeoxynucleotides in the Central Nervous System," <u>Brain Research Protocols</u> 3:83-87 (1998)
A113	* Bartel and Szostak, "Isolation of New Ribozymes from a Large Pool of Random Sequences," <u>Science</u> 261:1411-1418 (1993)
A113	* Basi et al., "Antagonistic Effects of β -Site Amyloid Precursor Protein-cleaving Enzymes 1 and 2 on β -Amyloid Peptide Production in Cells*," <u>The Journal of Biological Chemistry</u> , 278, 31512-31520 (2003)
A113	* Bass, "Double-Stranded RNA as a Template for Gene Silencing," <u>Cell</u> , 101, 235-238 (2000)

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A113	* Bass, "The short answer," <i>Nature</i> 411:428-429 (2001)
A113	* Beaucage and Iyer, "The Functionalization of Oligonucleotides Via Phosphoramidite Derivatives," <i>Tetrahedron</i> 49:1925-1963 (1993)
	* Beaudry and Joyce, "Directed Evolution of an RNA Enzyme," <i>Science</i> 257:635-641 (1992)
	* Beigelman et al., "Chemical Modification of Hammerhead Ribozymes," <i>The Journal of Biological Chemistry</i> 270:25702-25708 (1995)
	* Bellon et al., "Amino-Linked Ribozymes: Post-Synthetic Conjugation of Half-Ribozymes," <i>Nucleosides & Nucleotides</i> 16:951-954 (1997)
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A113	* Boado et al., "Drug Delivery of Antisense Molecules to the Brain for Treatment of Alzheimer's Disease and Cerebral AIDS," <i>Journal of Pharmaceutical Sciences</i> 87:1308-1315 (1998)
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	* Breaker and Joyce, "Inventing and improving ribozyme function: rational design versus iterative selection methods," <i>TIBTECH</i> 12:268-275 (1994)
✓	* Breaker, "Are engineered proteins getting competition from RNA?" <i>Current Opinion in Biotechnology</i> 7:442-448 (1996)

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AMB	*	Brennan et al., "Two-Dimensional Parallel Array Technology as a New Approach to Automated Combinatorial Solid-Phase Organic Synthesis," <i>Biotechnology and Bioengineering (Combinatorial Chemistry)</i> 61:33-45 (1998)
AMB	*	Broaddus et al., "Distribution and stability of antisense phosphorothioate oligonucleotides in rodent brain following direct intraparenchymal controlled-rate infusion," <i>Neurosurg. Focus</i> 3(5):Article 4 (1997)
AMB	*	Broaddus et al., "Distribution and stability of antisense phosphorothioate oligonucleotides in rodent brain following direct intraparenchymal controlled-rate infusion," <i>J Neurosurg</i> 88:734-742 (1998)
AMB	*	Brody and Gold, "Aptamers as therapeutic and diagnostic agents," <i>Reviews in Molecular Biotechnology</i> 74:5-13 (2000)
AMB	*	Buckwold et al., "Effects of a Naturally Occurring Mutation in the Hepatitis B Virus Basal Core Promoter on Precore Gene Expression and Viral Replication," <i>Journal of Virology</i> , 5845-5851 (1996)
AMB	*	Burger et al., "Experimental Corneal Neovascularization: Biomicroscopic, Angiographic, and Morphologic Correlation," <i>Cornea</i> 4:35-41 (1985/1986)
AMB	*	Burgin et al., "Chemically Modified Hammerhead Ribozymes with Improved Catalytic Rates," <i>Biochemistry</i> 35:14090-14097 (1996) (volume no. mistakenly listed as 6)
↓	*	Burlina et al., "Chemical Engineering of RNase Resistant and Catalytically Active Hammerhead Ribozymes," <i>Bioorganic & Medicinal Chemistry</i> 5:1999-2010 (1997)
↓	*	Caruthers et al., "Chemical Synthesis of Deoxyoligonucleotides and Deoxyoligonucleotide Analogs," <i>Methods in Enzymology</i> 211:3-19 (1992)
AMB	*	Chiu et al., "siRNA function in RNAi: A chemical modification analysis," <i>RNA</i> , 9:1034-1048 (2003)
AMB	*	Choi et al., "Effect of Poly(ethylene glycol) Grafting on Polyethylenimine as a Gene Transfer Vector <i>in vitro</i> ," <i>Bull. Korean Chem. Soc.</i> , 22, 46-52 (2001)

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A+B	* Chun et al., "Effect of infusion of vasoactive intestinal peptide (VIP)-antisense oligodeoxynucleotide into the third cerebral ventricle above the hypothalamic cuprachiasmatic nucleus on the hyperglycemia caused by intracranial injection of 2-deoxy-D-glucose in rats," <i>Neuroscience Letters</i> 257:135-138 (1998)
A+B	* Clemens et al., "The Double-Stranded RNA-Dependent Protein Kinase PKR: Structure and Function," <i>Journal of Interferon and Cytokine Research</i> , 17:503-524 (1997)
A+B	* Cload and Schepartz, "Polyether Tethered Oligonucleotide Probes," <i>J. Am. Chem. Soc.</i> 113:6324-6326 (1991)
↓	* Connolly et al., "Binding and Endocytosis of Cluster Glycosides by Rabbit Hepatocytes," <i>The Journ. of Biol. Chem.</i> 257:939-945 (1982)
↓	* Conry et al., "Phase I Trial of a Recombinant Vaccinia Virus Encoding Carcinoembryonic Antigen in Metastatic Adenocarcinoma: Comparison of Intradermal <i>versus</i> Subcutaneous Administration," <i>Clinical Cancer Research</i> 5:2330-2337 (1999)
↓	* d'Aldin et al., "Antisense oligonucleotides to the GluR2 AMPA receptor subunit modify excitatory synaptic transmission in vivo," <i>Molecular Brain Research</i> 55:151-164 (1998)
A+B	* Diebold et al., "Mannose Polyethylenimine Conjugates for Targeted DNA Delivery into Dendritic Cells*," <i>The Journal of Biological Chemistry</i> , 274, 19087-19094 (1999)
A+B	* Dryden et al., "The lack of specificity of neuropeptide Y (NPY) antisense oligodeoxynucleotides administered intracerebroventricularly in inhibiting food intake and NPY gene expression in the rat hypothalamus," <i>Journal of Endocrinology</i> 157:169-175 (1998)
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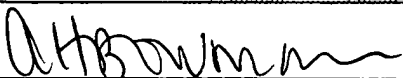
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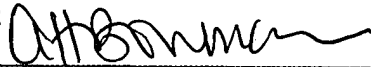

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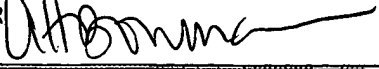
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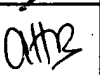
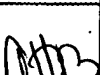
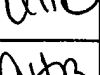
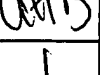

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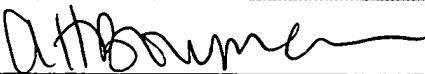
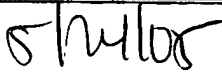
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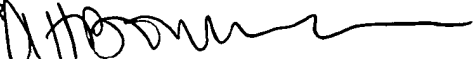

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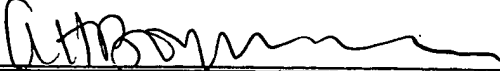

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AtHB	*	Usman et al., "Chemical modification of hammerhead ribozymes: activity and nuclease resistance," <i>Nucleic Acids Symposium Series</i> 31:163-164 (1994)
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